

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for the manufacture of a cam shaft from a tube, the cam shaft having bearer rings attached thereto, the method comprising the following steps:

producing bearer rings in correspondence with an outline of the cams on said cam shaft, the bearer rings having an even wall thickness and the necessary hardness, strength and wear resistance, in a separate method;

placing the tube and the bearer rings in a high internal pressure forming tool;

applying axial forces to the ends of the tube; and

applying a medium under a high internal pressure to the tube, whereby the tube is expanded in defined region to form hollow cams and whereby the bearer rings are attached to the tube of the sited of the cams in a frictional and interlocking manner by expansion of the tube.

Claim 2 (previously presented): The method as set forth in claim 1, characterized in that in a step prior to such high internal pressure forming, regions that lie at the ends of the tube outside the regions in which the cams are seated, are upset that same are increased in thickness for forming different functional elements.

Claim 3 (previously presented): The method as set forth in claim 1, characterized in that between the cam shaft ends in a step prior to internal high pressure forming bearing faces and the eventual region where the cams are to be seated, are produced by round kneading and by reducing the diameter in this part to the desired size.

Claim 4 (currently amended): The method as set forth in claim 1 or in claim 2, characterized in that between the cams bearing faces are produced by internal high pressure forming by expanding the tube.

Claim 5 (previously presented): The method as set forth in claim 1, characterized in that the bearer rings are hardened in a known manner prior to being placed in the internal high pressure forming tool.

Claim 6 and 7 (canceled)

Claim 8 (currently amended): A cam shaft, characterized in that the cam shaft is produced from a tube (1) by the internal high pressure forming method set forth in claim 1 such that the shaft comprises hollow cams (2) in form and in position in a single piece, and that on the formed cams (2) a bearer ring (3) having an even wall, shaped to correspond to the cam periphery and made of a hard, wear-resistant material is secured frictionally and in an interlocking manner.

Claims 9 and 10 (canceled)

Claim 11 (previously presented): A cam shaft as set forth in claim 8, characterized in that the bearer rings (3) consist of sintered metal, or plastic or ceramic material.

Claim 12 (previously presented): A cam shaft as set forth in claim 8, characterized in that the tube (3) consists of aluminum, magnesium or titanium or its alloys.

Claim 13 (canceled)

Claim 14 (previously presented): A cam shaft as set forth in claim 8, characterized by additional drive and control elements, preferably sprocket or gear wheels, secured by the internal high pressure forming method.

Claim 15 (previously presented): A cam shaft as set forth in claim 14, characterized in that at least one radially extending groove (4) is produced in the bearer ring (3) and the drive and control elements.

Claim 16 (previously presented): A cam shaft as set forth in claim 14, characterized in that the side, facing the tube (1) of the bearer ring (3) has chamfers on one or both sides on the side facing the tube

Claim 17 (previously presented): A cam shaft as set forth in claim 8, characterized in that the bearer rings (3) are hardened prior to application on the formed cams.